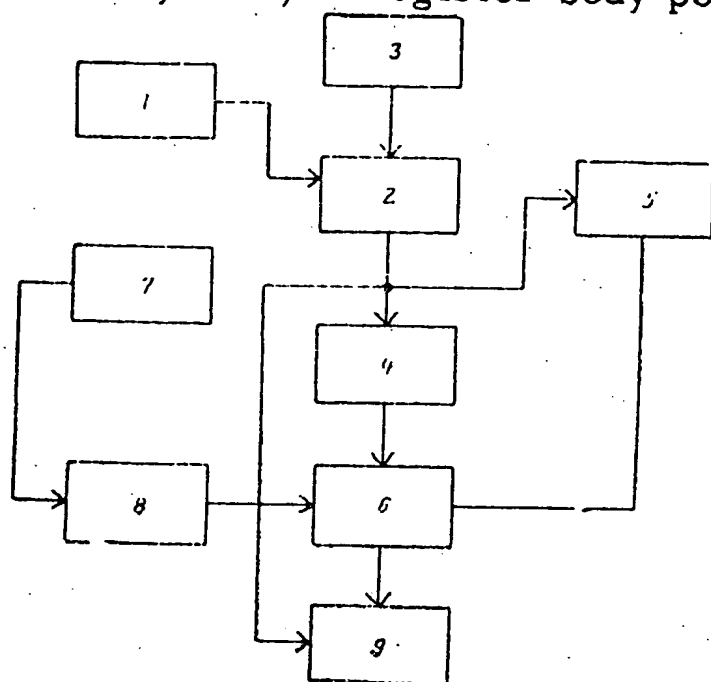


VOFO= ★ P31 H3749A/38 ★ SU-578-061
 Human body position register for ergonomic research - has
 comparator connected to deviation integrator and intervals timer
 and computing circuit

VORON FORESTRY INST 17.06.76-SU-374773

(01.11.77) A61b-05/10

Circuit used in medical diagnostics (antropometry, ergo-
 nometry etc.) to register body position at work, sporting



events etc. is provided
 with a strain transducer
 averager, deviations
 integrator, timer and
 computing unit to deter-
 mine biomechanical cha-
 racteristic of a human
 stature. The compara-
 tor is connected to devi-
 ations integrator and to
 intervals timer coupled
 to a computing circuit.
 Third input of the com-
 puting circuit is coupled
 to strain transducer via
 averager.

Circuit contains pos-
 ture detectors (1) arra-

nged along the shoulders, hips etc. comparator (2), thresh-
 old levels setter (3) deviations integrator (4), timer (5),
 computing circuit (5), strain transducer (7), averager
 (8) and register (9).

Body posture angles within the limits of comfort are
 pre-set (3) depending on individuals build, body, work and
 effort, and compared (2) with detectors (1) output. Deviat-
 ion signals are integrated (4) along with averaged (8) str-
 ain transducer (7) and timer (5) signals to determine the
 degree of discomfort. Efanova R.A., Bul. 40/30.10.77.
 17.6.76 as 374773 (3pp537)

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